

DAFTAR PUSTAKA

- Alibaba, 2021, Find quality Manufacturers, Suppliers, Exporters, Importers, Buyers, Wholesalers, Products and Trade Leads from our award-winning International Trade Site, Import & Export on alibaba.com, (online) Available at: http://www.alibaba.com/?__redirEted__=1 (Accessed 21 November 2021),
- Badan Pusat Statistik 2020, Tingkat Pengangguran Terbuka di Kabupaten Gresik 2017-2019. Available at: <https://gresikkab.bps.go.id/statictable/2020/06/15/160/tingkat-pengangguran-terbuka-di-kabupaten-gresik-2017-2019-.html> (Accessed: 21 November 2021).
- Badan Pusat Statistik, 2019, Banyaknya Hari Hujan dan Rata-Rata Curah Hujan Rata-Rata Menurut Bulan (Mm) di Kabupaten Gresik. Available at: <https://gresikkab.bps.go.id/statictable/2020/06/07/149/banyaknya-hari-hujan-menurut-bulan-di-kabupaten-gresik-2016-2019.html> dan <https://gresikkab.bps.go.id/statictable/2020/06/07/147/rata-rata-curah-hujan-menurut-bulan-di-kabupaten-gresik-2014-2019.html> (Accessed: 21 November 2021).
- Brown, G.G. et al. 1950. Unit Operation. 1st ed. New York: John Wiley & Sons, Inc.
- Brown, T., 2019, Available at: <https://www.ammoniaenergy.org/articles/the-cost-of-hydrogen-platts-launches-hydrogen-price-assessment/> (Accessed: 21 November 2021).
- Brownell, & Young. 1959. Process Equipment Design - Lloyd E. Brownell, Edwin H. Young Wiley, 1959.
- ChemAnalyst, 2021, Available at: <http://www.chemanalyst.com/Pricing/Pricingoverview> (Accessed: 21 November 2021),
- ChemicalBook, 2021, Nitrosylsulfuric Acid, Available at: http://www.chemicalbook.com/ChemicalProductProperty_EN_CB3695582.htm (Accessed: 21 November 2021),
- ChemicalBook, 2021, Nitrosylsulfuric Acid, Available at: http://www.chemicalbook.com/ChemicalProductProperty_EN_CB3695582.htm (Accessed: 21 November 2021).
- Cheremisinoff, 2001, Handbook of Water and Waste Water Treatment Technologies, Butterworth-Heinemann, England.

- cjhJIPE, 2019, Kawasan Industri JIPE di Gresik Gunakan Pengolahan Limbah Modern Untuk Mencegah Pencemaran Lingkungan. Available at: <https://www.jiipe.com/id/home/blogDetail/id/76> (Accessed: 21 November 2021).
- Corporation, R., 2021, 100% Nylon 6 210D Ripstop TPU Double Face Lamination Weldable Fabric. (online) U-Long High-Tech Textile Co., Ltd. Available at: <https://www.u-long.com/id/product/100-Nylon-6-210D-Ripstop-TPU-Double-Face-Lamination-Weldable-Fabric/BB2253-Tarpaulin.html> (Accessed 21 November 2021).Kemenperin.go.id. 2021 *Kemenperin: Kemenperin: Industri Tekstil dan Pakaian Tumbuh Paling Tinggi*. (online) Available at: <https://kemenperin.go.id/artikel/21230/Kemenperin:-Industri-Tekstil-dan-Pakaian-Tumbuh-Paling-Tinggi> (Accessed 21 November 2021).
- Coulson, J. M. and Richardson, J. F. 1983 *Chemical Engineering Vol. 6*. 1st edn. Oxford: Pergamon Press Ltd.
- Couper, J. R., Penney, W. R., Fair, J. R., & Walas, S. M. 2012. Chemical Process Equipment (3rd ed.). Elsevier.
- Ekato, 2015, Hydrogenation Plant,
- Fogler H. S, 2016, Elements of Chemical Reaction Engineering (5th ed.). Prentice Hall,
- Friuli, C. D., A. 1986. A Method of Preparing Omega-Lactams, in Particular Caprolactam. Europe patent Europe 0197408. 15. 10. 86
- Geankoplis, C J., 1997, Transport Proses and Unit Operation 3th edition, New Jersey: Prentice Hall,
- Grand View Research, 2018, Caprolactam Market. Available at: <https://www.grandviewresearch.com/industry-analysis/caprolactam-market> (Accessed: 21 November 2021).
- Gunardson, H., 1998, Industrial Gases in Petrochemical Processing,
- Gunardson, H., 1998, Industrial Gases in Petrochemical Processing.
- Haynes, W, M., Lide, D, R., & Bruno, T, J., 1977, CRC Handbook of Chemistry and Physics, Cleveland, Ohio :CRC Press, 1977,Patent US 3141036
- Hydrocarbon Porcessing, 1970, Hydrocarbon Processing
- Kementerian Perindustrian Indonesia, 2019, Available at: <https://kemenperin.go.id/artikel/21230/Kemenperin:-Industri-Tekstil-dan-Pakaian-Tumbuh-Paling-Tinggi> (Accessed: 21 November 2021).

- Kern, D. Q. 1950. Process Heat Transfer. McGraw-Hill Book Company Inc.
- Kirk, R.E. and Othmer, D.F., 2001, Encyclopedia of Chemical Technology, Interscience Encyclopedia, Inc., New York.
- Kumar, R., Shah, S., Das, P.P., Girishkumar, G., Fatesh, A. Al and Chowdhury, B., 2019, An overview of caprolactam synthesis, Catal. Rev., Taylor & Francis, 00 (00), 1–79.
- Megyesy E. 2001. Pressure Vessel Handbook.
- Myerson, A. 2001. Handbook of Industrial Crystallization. Butterworth-Heinemann.
- National Center for Biotechnology Information, 2021, PubChem Compound Summary for CID 7768, Caprolactam. Retrieved November 21, 2021 from <https://pubchem.ncbi.nlm.nih.gov/compound/Caprolactam>.
- P,J, Linstrom and W,G, Mallard, Eds., NIST Chemistry WebBook, NIST Standard Reference Database Number 69, National Institute of Standards and TEhnology, Gaithersburg MD, 20899, htTKs://doi.org/10,18434/T4D303, (retrieved DEember 17, 2021),
- Peraturan Menteri Negara Lingkungan Hidup No. 03 Tahun 2010 tentang Baku Mutu Air Limbah bagi Kawasan Industri
- Peraturan Pemerintah Nomor 101 tahun 2014 tentang Pengolahan Limbah Bahan Berbahaya dan Beracun.
- Peraturan Pemerintah Republik Indonesia No. 41 Tahun 1999 tentang Pengendalian Pencemaran Udara.
- Perry, et al., 1984, Perrys Chemical Engineering Hand Book, 6th ed., Mc Graw Hill Kogakusha Ltd., London,
- Perry, R. H. and Green, D. W., 1999. Perry's Chemical Engineers' Handbook. 7th edn. Lawrence: McGraw-Hill.
- Poulopoulos, S. 2006. Adsorption, Ion Exchange, and Catalysis.
- Powell, S. T., 1954. Water Conditioning for Industry. Oakland: McGraw-Hill.
- Prescient & Strategic Intelligence, 2021, Caprolactam Market. Available at: <https://www.psmarketresearch.com/market-analysis/caprolactam-market> (Accessed: 21 November 2021)
- Raj, H., Prasad, M., Taek, K., Seo, Y.A., Raj, D., Tshool, S. and Yong, H., 2011, Electrospun nylon-6 spider-net like nanofiber mat containing TiO₂

- nanoparticles : A multifunctional nanocomposite textile material, J. Hazard. Mater., Elsevier B.V., 185 (1), 124–130. Talukdar, J., Wong, E. H. S. and Mathur, V. K. (1991) Caprolactam production by direct solar flux, Solar Energy, 47(3), pp. 165–171. doi: 10.1016/0038-092X(91)90075-8.
- Rase, H.F. 1999. Chemical Reactor Design for Process Plants. John Wiley & Sons, Ltd.
- Schweitzer, P. A., 1979, Handbook Separation TEhniques for Chemical Engineering, McGraw-Hill; Subsequent edition,
- Sinnott, R. K. 2005. Coulson and Richardson's Chemical Engineering. Elsevier.
- Talukdar, J., Wong, E.H.S. and Mathur, V.K., 1991, Caprolactam production by direct solar flux, Sol. Energy, 47 (3), 165–171.
- Temkin, M, I.; Konyukhov, V, Yu.; Kul'kova, N, V., 1981, Kinetics Of Liquid Phase Hydrogenation Of Benzoic Acid, Journal Of The Research Institute For Catalysis Hokkaido University, 28(3): 363-370
- Timmerhaus, K. D. 1986. Plant Design and Economics for Chemical Engineers.
- Ullmann, F., Gerhartz, W., Yamamoto, Y, S., Campbell, F, T., Pfefferkorn, R., Rounsaville, J, F., & Ullmann, F., 2005, Ullmanns encyclopedia of industrial chemistry, Weinheim, Federal Republic of Germany: VCH, www.alibaba.com
- Ulrich, G. D. 1984. A Guide to Chemical Engineering Process Design and Economic. John Wiley & Sons, Ltd.
- United States Comtrade, 2020, Caprolactam Import. Available at: <https://comtrade.un.org/data> (Accessed: 21 November 2021).
- Utomo, A. D, dkk., 2010, Pencemaran di Sungai Bengawan Solo Antara Solo dan Sragen, Jawa Tengah.
- W.B. Fischer dan L. Crescentini., 2005, Caprolactam, Kirk-Othmer Encyclopedia of Chemical Technology.
- Walas, S. M., 1990, Chemical Process Equipment Selection and Design, Butterworth-Heinemann.
- Winstrom, L. O., dan Snider, O. E. 1964. Cyclohexane Carboxylic Acid Produced by Hydrogenation of Molten Benzoic Acid. United States patent US 3141036. 14. 06. 64
- Yaws, C. L. 1999. Chemical Properties Handbook. In McGRAW-HILL. <http://www.elsevier.com/locate/scp>



Zong, B., Sun, B., Cheng, S., Mu, X., Yang, K., Zhao, J., Zhang, X., ., 2017, Green Production Technology of the Monomer of Nylon-6: Caprolactam, Engineering, Elsevier LTD on behalf of Chinese Academy of Engineering and Higher Education Press Limited Company, 3 (3), 379–384.